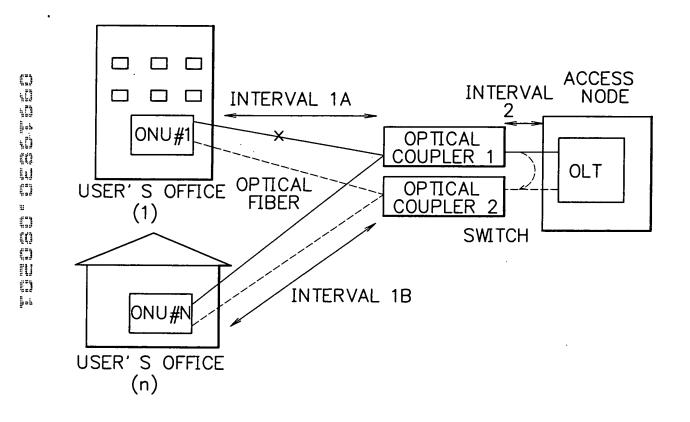
Hiroshi NAKAISHI

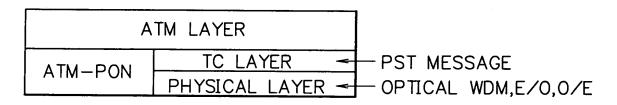
"ATM-PON Dual System, Optical Line Terming
Optical Network Unit and ATM-PON Dual MethQ65699-----Filed August 2, 2001
Sheets, 1 of 13

F I G. 1



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Optical Network Unit and ATM-PON Dual Metho
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F I G. 2



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Optical Network Unit and ATM-PON Dual Method
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FIG. 3A

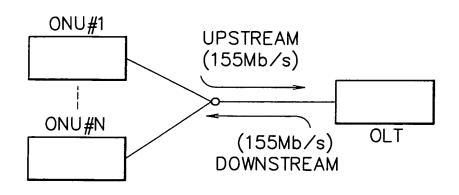
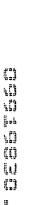


FIG. 3B

FORMAT OF DOWNSTREAM T I FRAME

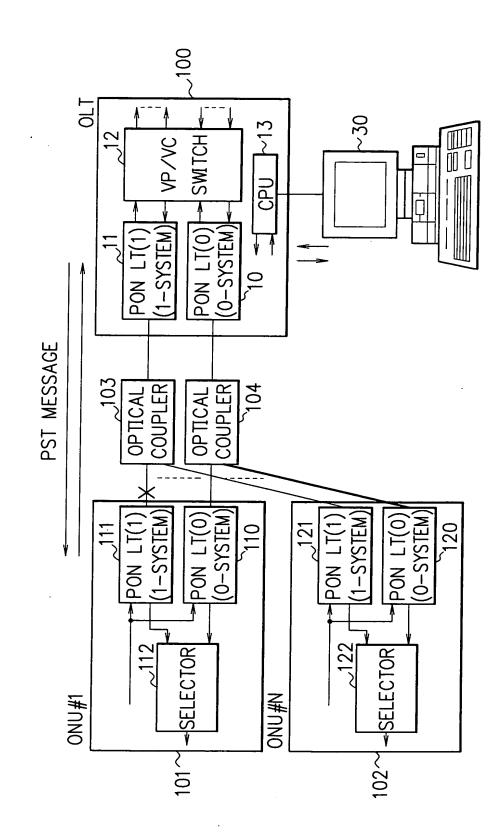
T FRAME=56 CELLS, EACH CELL CONTAINS 53 BYTES

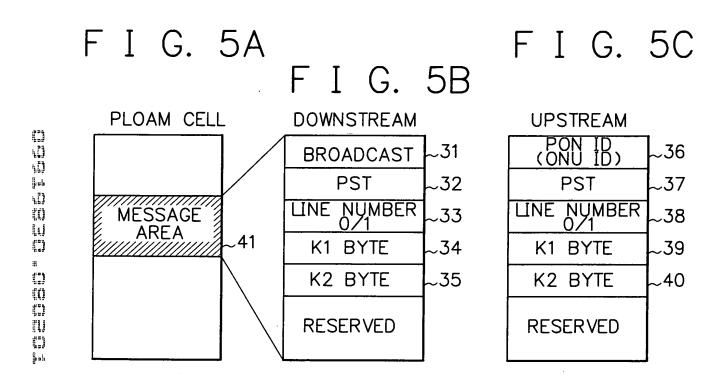
f	
PLOAM ATM CELL 1 CELL 27 CELL 28	ATM CELL 54
CONTAIN 53 UPSTREAM GRANTS	
FORMAT OF UPSTREAM T FRAME=53 CELLS	
ATM(*) ATM(*) CELL 2 CELL 3	ATM(*) CELL 53



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## FIG. 6A

DOWNSTREAM 1 FRAME: 56 CELLS

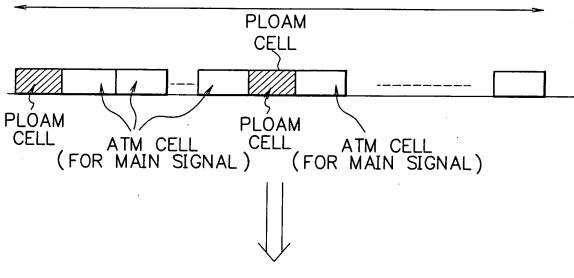


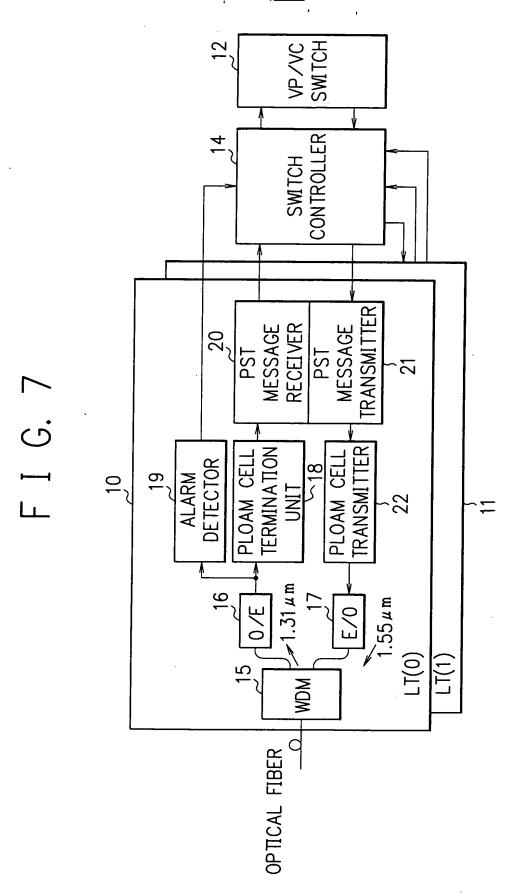
FIG. 6B

PLOAM CELL 1	1	2	3	 27
PLOAM CELL 2	28	29	30	 56

OAM FUNCTION

MAIN SIGNAL AREA

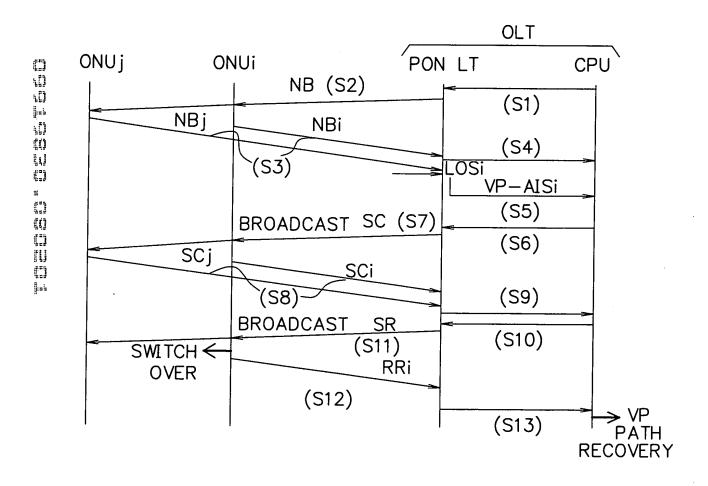
Sheets 7 of 13



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F I G. 8

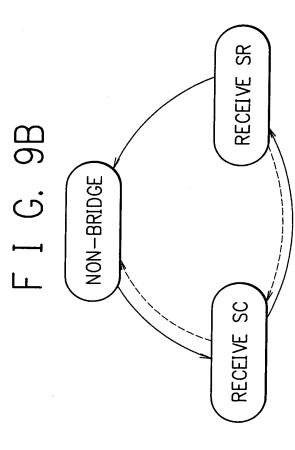


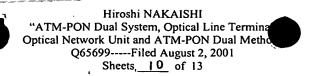
**6** 

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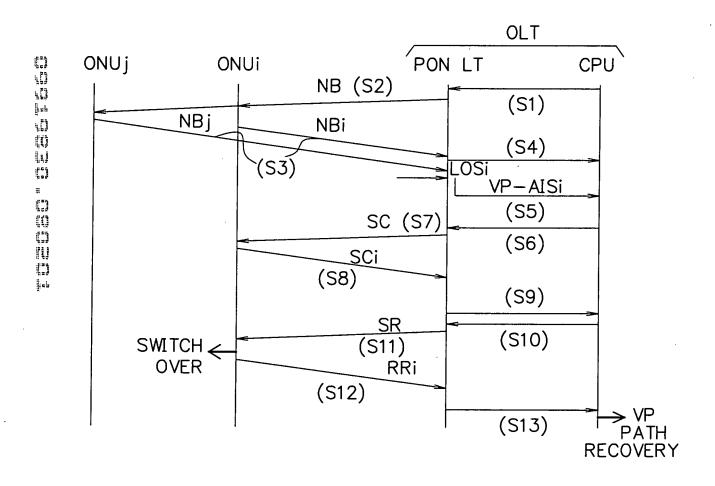
F I G. 9A

	OPERATION EVENT	NON- BRIDGE	BRIDGE	FAULT IN BACKUP SYSTEM NON-BRIDGE	FAULT IN BOTH SYSTEMS NON-BRIDGE
PRIMARY: 0-SYSTEM	(0):2S	>	NONE	>	NONE
BACKUP: 1-SYSTEM	SCi(1)	>	>	NONE	NONE





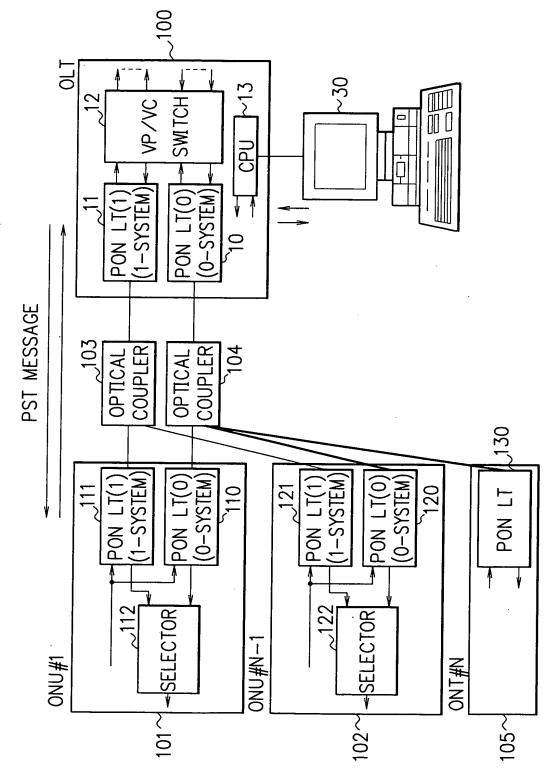
F I G. 10

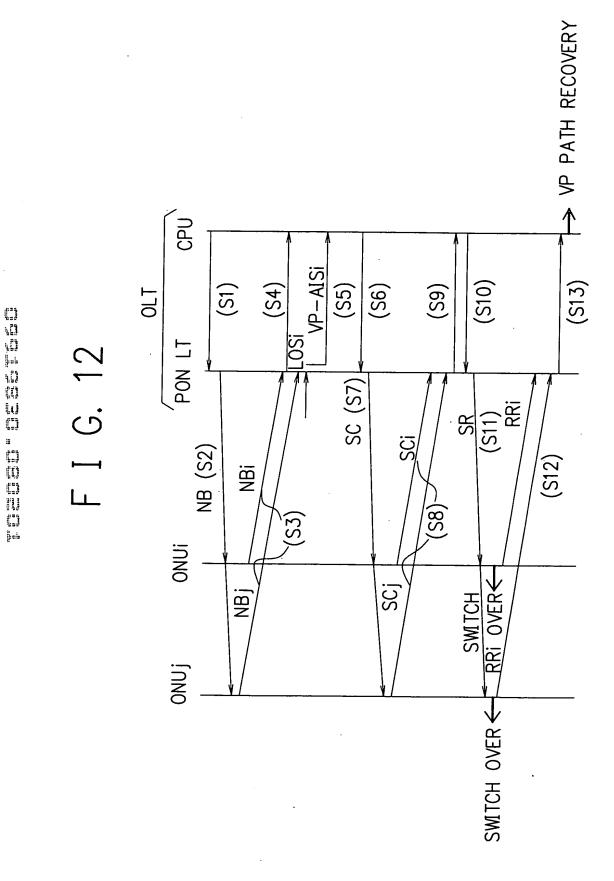


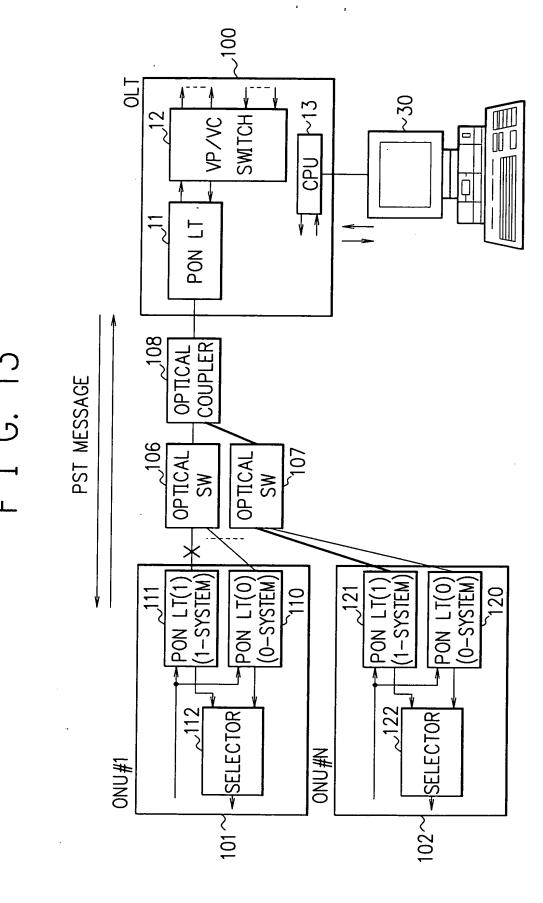
F I G. 11

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